AUTHOR INDEX

AKHTAR, F., 145
ANDERSON, L., 265
ANGYAL, S. J., 121
ANISUZZAMAN, A. K. M., 265

BACKINOWSKY, L. V., 61
BAER, H. H., 291
BOCK, K., 331, 354
BREG, J., 23
BRIMACOMBE, J. S., 37
BRUNS, W., 341
BUNDLE, D. R., 239

ČERNÝ, M., 349
CHEW, S., 161
CHIBA, T., 253
CHOAY, J., 253
CLASSON, B., 369

DEFAYE, J., 323
DELL, A., 313
DESSINGES, A., 47
DREW, M. G. B., 145

FERRIER, R. J., 161
FRASER-REID, B., 99

GADELLE, A., 323
GAREGG, P. J., 369
GERKEN, M., 239
GLAUDEMANS, C. P. J., 87
GREEVES, D., 121
GUZMAN, J. F. B., 354

HAASNOOT, C. A. G., 23
HARANGI, J., 113
HASHIMOTO, H., 181
HOLME, K. R., 87
HORITO, S., 181
HORTON, D., 305
HOUGH, L., 145

JACQUINET, J.-C., 253
JEANLOZ, R. W., 279
JEFFREY, G. A., 1
JUNG, G. L., 87

KABIR, A. K. M. S., 37
KLAFFKE, W., 201
KOCHETKOV, N. K., 61
KÖLL, P., 9
KOMINATO, K., 360

LAY, H., 87
LEHMANN, J., 87
LEMIEUX, R. U., 211
LENFERS, J.-B., 341
LEONTEIN, K., 313
LINDBERG, B., 313
LINDQUIST, U., 313
LIPTÁK, A., 113
LITTLEMORE, L., 121
LIU, Z., 369
LUNDT, I., 331

MAIER, T., 169
MOOTOO, D. R., 99

NAKABAYASHI, S., 279
NAVIA, J. L., 265
NIFANT'EV, N. E., 61
NUMATA, M., 73

OGAWA, S., 354, 360
OGAWA, T., 73
OLÁH, V. A., 113

PEDERSEN, C., 323, 331
PETERS, T., 239
PETITOU, M., 253
POHL, S., 9

RADATUS, B., 291
REDLICH, H., 341, 349
RICHARDSON, A. C., 145
ROGERS, M., 313
ROMIJN, D., 23

SAAK, W., 9
SAMM, K., 341
SAMUELSSON, B., 369
SCHMIDT, R. R., 169
SHIBAYAMA, S., 73
SINAŸ, P., 253
SINCHAREONKUL, L. V., 145
SINNWELL, V., 161
SONNICHSEN, R., 331
SPOHR, Y., 211
SPRINGER, D., 201
SUAMI, T., 360
SUGIMOTO, M., 73
SVENSON, S. B., 313

TAMURA, J., 181
THIEM, J., 201
TRNKA, T., 349

UMEZAWA, S., 133
USUI, T., 133

VAN HALBEEK, H., 23
VASELLA, A., 47
VISSER, R. A., 23
VLIEGENTHART, J. F. G., 23

WARREN, C. D., 279
WECKERLE, W., 305
WILLIAMS, U., 291
WRANGSELL, G., 313

YEON, Y., 1
YOSHIMURA, J., 181

CARBOHYDRATE RESEARCH, VOL. 174 (1988)

SUBJECT INDEX

Acetal and ester protecting-groups in the hydrogen fluoride-catalysed synthesis of D-fructose and L-sorbose difuranose dianhydrides, 323

2-Acetamido-2-deoxy-α-D-galactopyranosyl analogue of tunicamycin, synthesis of a, 360

β-D-Allofuranose, 1,6-anhydro-, crystal structure of, 9

β-L-Altrofuranose, 1,6-anhydro-, crystal structure of, 9

2-Amino-2-deoxy-4-*O*-(α- and β-D-galactopyranosyl)-D-glucose, synthesis of derivatives of, 61

1,6-Anhydro-β-D-glucopyranose, preparation of, 349

1,6-Anhydrohexofuranoses, crystal structures of, 9

Antifreeze glycoproteins of polar fish, synthesis of a close analog of the repeating unit of the, 265

Antigenic determinants of the *Brucella* A antigen, synthesis of, utilizing methyl 4-azido-4,6-dideoxy-α-D-mannopyranoside efficiently derived from D-mannose, 239

3-Azi-1-methoxybutyl β-D-galactopyranoside, a photoaffinity label for monoclonal antigalactan antibodies of the V_HGAL 39.1/55.1 gene-family, 87

Benzylidene acetals of aldopyranosides and 1,5-anhydroalditols, reaction of butyllithium with, 305

Blood-group determinants, synthetic, conformational, and immunochemical studies of modified Lewis b and Y human, 211

Butyllithium, reaction of benzylidene acetals of aldopyranosides and 1,5-anhydroalditols with, 305

Characterisation of four lactose monophosphates by application of ^{31}P-, ^{13}C-, and ^{1}H-n.m.r. spectroscopy, 23

Chiral isoalkyl structures, nucleophilic ring opening in a carbohydrate nitrocyclopropane: a stereospecific approach to, 291

Chromophoric dimeric furan, the crystal structure of an unusual, 1

Combining site of the lectin IV of *Griffonia simplicifolia*, studies of modified Lewis b and Y human blood-group determinants to serve as probes for the, 211

Complex formed from D-galacturonate ions and cations in solution, the structure of the, 121

Crystal structure of an unusual chromophoric dimeric furan, 1

Deoxyheptonolactones and anhydroheptonolactones, D-*glycero*-D-*gulo*-heptono-1,4-lactone as a precursor for the synthesis of, 331

3-Deoxy-6-thio-D-*manno*-2-octulosonic acid ("6-thio-KDO"), synthesis of, 369

Destomycin C, a typical pseudo-trisaccharide of destomycin-group antibiotics, synthesis of, 181

7,8-Dideoxy-1,2:3,4-di-*O*-isopropylidene-β-L-*glycero*-D-*galacto*-oct-7-enopyranose, synthesis and osmylation of, and related studies, 37

2,6-Dideoxyoligosaccharides, α-L-(1→4)-linked, synthesis, 201

Disaccharide component of the orthosomycin-type oligosaccharide antibiotics, synthesis of everninose, a non-reducing, 113

6,6′-Dithiosucrose, 6,6′-epidithiosucrose, and 6,6′-epithiosucrose, synthesis of, 145

(3*S*,5*S*,6*S*)-6-Ethyl-3,5-dimethyltetrahydro-2*H*-pyran-2-one, synthesis of, 341

Everninose, a non-reducing disaccharide component of the orthosomycin-type oligosaccharide antibiotics, synthesis of, 113

D-Fructose and L-sorbose difuranose dianhydrides, acetal and ester protecting-groups in the hydrogen fluoride-catalysed synthesis of, 323

β-D-Fructose 2,6-bisphosphate, synthesis of a non-isoteric isopolar monophosphonate analogue of, 47

Furan, the crystal structure of an unusual chromophoric dimeric, 1

Fused bipyranoses, studies related to the use of, for synthesis of polypropionate arrays, 99

α-D-Galactofuranose, 1,6-anhydro-, crystal structure of, 9

D-Galactopyranosyl)-D-glucose, synthesis of derivatives of 2-amino-2-deoxy-4-*O*-(α- and β-, 61

D-Galacturonate ions, structure of the complex formed in solution by cations and, 121

β-D-Glucofuranose, 1,6-anhydro-, crystal structure of, 9

β-D-Glucopyranose, 1,6-anhydro-, preparation of, 349

Glycopeptide synthesis, protected heptasaccharide intermediate for, 279
Glycoproteins of polar fish, synthesis of a close analog of the repeating unit of the antifreeze, 265

Hematoside [α-NeuGc-(2→3)-β-Gal-(1→4)-β-Glc-(1→1)-Cer], a total synthesis of, 73
Heparin, chemical synthesis of L-iduronic acid-containing disaccharidic fragments of, 253
Heptasaccharide–asparagine intermediate for glycopeptide synthesis, 279
D-*glycero*-D-*gulo*-Heptono-1,4-lactone as a precursor for the synthesis of deoxyheptonolactones and anhydroheptonolactones, 331
α-L-*arabino*-Hexose, 2,6-dideoxy-, (1→4)-linked, synthesis of di- and tri-saccharide containing, 201
Hexoses, a ^{1}H- and ^{13}C-n.m.r. spectroscopic analysis of six pseudo-, 354
Hydrogen fluoride-catalysed synthesis of D-fructose and L-sorbose difuranose dianhydrides, acetal and ester protecting-groups in the, 323

α-L-Idofuranose, 1,6-anhydro-, crystal structure of, 9
L-Iduronic acid-containing disaccharidic fragments of heparin, chemical synthesis of, 253

Lactose monophosphates, characterisation of four, by application of ^{31}P, ^{13}C-, and ^{1}H-n.m.r. spectroscopy, 23
Lactosyl-ceramides, synthesis of D-*ribo*- and L-*lyxo*-phytosphingosines and transformation into the corresponding, 169
α-L-(1→4)-Linked 7,6-dideoxyoligosaccharides, synthesis of, 201

Methyl 4-azido-4,6-dideoxy-α-D-mannopyranoside efficiently derived from D-mannose, synthesis of antigenic determinants of the *Brucella* A antigen utilizing, 239
Monoclonal antigalactan antibodies of the V_H GAL 39.1/55.1 gene-family, use of 3-azi-1-methoxybutyl β-D-galactopyranoside as a photoaffinity label for, 87
Monophosphonate analogue of β-D-fructose 2,6-bisphosphate, synthesis of a non-isoteric isopolar, 47

Neomycin B, total synthesis of, 133
Nitrocyclopropane: a stereospecific approach to chiral isoalkyl structures, nucleophilic ring opening in a carbohydrate, 291
N.m.r. spectroscopic analysis of six pseudohexoses, a ^{1}H- and ^{13}C-, 354
N.m.r. spectroscopy, characterisation of four lactose monophosphates by application of ^{31}P, ^{13}C-, and ^{1}H-, 23
3-Nonanone, (4*S*,6*S*,7*S*)-4,6-dimethyl-7-hydroxy-, synthesis of, 341
Nucleophilic ring opening in a carbohydrate nitrocyclopropane: a stereospecific approach to chiral isoalkyl structures, 291

Oct-7-enopyranose, synthesis and osmylation of 7,8-dideoxy-1,2:3,4-di-*O*-isopropylidene-β-L-*glycero*-D-*galacto*-, and related studies, 37
2-Octulosonic acid ("6-thio-KDO"), synthesis of 3-deoxy-6-thio-D-*manno*-, 369

Photoaffinity label for monoclonal antigalactan antibodies of the V_H GAL 39.1/55.1 gene-family, use of 3-azi-1-methoxybutyl β-D-galactopyranoside as a , 87
Phytosphingosines, synthesis of D-*ribo*- and L-*lyxo*-, and transformation into the corresponding lactosyl-ceramides, 169
Polysaccharide of *Salmonella thompson* serogroup $C_1(6,7)$, structural studies of the O-antigen, 313
Protected heptasaccharide–asparagine intermediate for glycopeptide synthesis, 279
Pseudohexoses, a ^{1}H- and ^{13}C-n.m.r. spectroscopic analysis of six, 354
Pseudo-trisaccharide (destomycin C) of destomycin-group antibiotics, synthesis of a typical, 181
Pyranonaphthoquinones, an approach to the synthesis of, 161

Reaction of butyllithium with benzylidene acetals of aldopyranosides and 1,5-anhydroalditols, 305

Salmonella thompson serogroup $C_1(6,7)$, structural studies of the O-antigen polysaccharide of, 313
Serricornin, synthesis of, 341
Steel reactor for the preparation of 1,6-anhydro-β-D-glucopyranose, 349
Structural studies of the O-antigen polysaccharide of *Salmonella thompson*, serogroup $C_1(6,7)$, 313
Structure of the complex formed from D-galacturonate ions and cations in solution, 121
Studies related to the use of fused bipyranoses for synthesis of polypropionate arrays, 99
Sucrose, synthesis of 6,6′-dithio-, 6,6′-epidithio-, and 6,6′-epithio-, 145
Synthesis and osmylation of 7,8-dideoxy-1,2:3,4-di-*O*-isopropylidene-β-L-*glycero*-D-*galacto*-oct-7-enopyranose and related studies, 37

Synthesis of a 2-acetamido-2-deoxy-α-D-galactopyranosyl analogue of tunicamycin, 360
Synthesis of a close analog of the repeating unit of the antifreeze glycoproteins of polar fish, 265
Synthesis of a non-isoteric isopolar monophosphonate analogue of β-D-fructose 2,6-bisphosphate, 47
Synthesis of antigenic determinants of the *Brucella* A antigen, utilizing methyl 4-azido-4,6-dideoxy-α-D-mannopyranoside efficiently derived from D-mannose, 239
Synthesis of deoxyheptonolactones and anhydroheptonolactones, D-*glycero*-D-*gulo*-heptono-1,4-lactone as a precursor for the, 331
Synthesis of 3-deoxy-6-thio-D-*manno*-2-octulosonic acid ("6-thio-KDO"), 369
Synthesis of derivatives of 2-amino-2-deoxy-4-*O*-(α- and β-D-galactopyranosyl)-D-glucose, 61
Synthesis of destomycin C, a typical pseudo-trisaccharide of destomycin-group antibiotics, 181
Synthesis of 6,6′-dithiosucrose, 6,6′-epidithiosucrose, and 6,6′-epithiosucrose, 145
Synthesis of everninose, a non-reducing disaccharide component of the orthosomycin-type oligosaccharide antibiotics, 113
Synthesis of hematoside [α-NeuGc-(2→3)-β-Gal-(1→4)-β-Glc-(1→1)-Cer], a total, 73
Synthesis of L-iduronic acid-containing disaccharidic fragments of heparin, 253
Synthesis of neomycin B, total, 133
Synthesis of D-*ribo*- and L-*lyxo*-phytosphingosine and transformation into the corresponding lactosyl-ceramides, 169
Synthesis of polypropionate arrays, studies related to the use of fused bipyranoses for, 99
Synthesis of pyranonaphthoquinones, an approach to the, 161
Synthetic, conformational, and immunochemical studies of modified Lewis b and Y human blood-group determinants to serve as probes for the combining site of the lectin IV of *Griffonia simplicifolia*, 211

α-D-Talofuranose, 1,6-anhydro-, crystal structure of, 9
Total synthesis of neomycin B, 133
Tunicamycin, synthesis of a 2-acetamido-2-deoxy-α-D-galactopyranosyl analogue of, 360